



ELECTRONIC TUBE REFERENCE

6G5

Tuning Indicator electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TUNING INDICATOR

Electron-ray visual indicator for receiver tuning or electrical level indication, using a fluorescent display whose pattern changes with control voltage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	6
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION 1 Triode

MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1 W

Published ratings and characteristics promoted where clearly stated; identical repeated diode/triode sections compressed where applicable.

SECTION 2 Tuning Indicator

MAXIMUM PLATE VOLTAGE	250 V
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Physical section represented from published tube construction.

Circular fluorescent tuning indicator with internally connected remote-cutoff triode amplifier; double-marked 6U5/6G5.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
" 'g Laximum Plate Supply Voltage	250 V	ClassA
liaximum Target Voltage	250 V	ClassA
liinimum Target Voltage	90 V	ClassA
Plate Supply Voltage	100 V	ClassA; Column1
Plate Supply Voltage	200 V	ClassA; Column2
Plate Supply Voltage	250 V	ClassA; Column3
Target Voltage	100 V	ClassA; Column1
Target Voltage	200 V	ClassA; Column2
Target Voltage	280 V	ClassA; Column3
Plate Resistor	0.5 ohm	ClassA; Column1
Plate Resistor	1 ohm	ClassA; Column2
Plate Resistor	1 ohm	ClassA; Column3
Target Current (approximate)	4.5	ClassA; Column1
Target Current (approximate)	4.5	ClassA; Column2
Target Current (approximate)	4.5	ClassA; Column3
Plate Current (zero blas)	0.19 mA	ClassA; Column1
Plate Current (zero blas)	0.19 mA	ClassA; Column2
Plate Current (zero blas)	0.24 mA	ClassA; Column3
Grid Bias (approximate)	-8 V	ClassA; Column1
Grid Bias (approximate)	-18.5 V	ClassA; Column2
Grid Bias (approximate)	22 V	ClassA; Column3



SOURCE OPERATING CONDITIONS

1938 Raytheon

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 RAYTHEON

Section 2 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
, l Heater Current	300 mA	, l Heater Current 0,3 amp
f Maxirmm Plate Supply Voltage	2860 V	f Maxirmm Plate Supply Voltage 2860 volts
J DU t»m Maxim Target Voltage	250 V	J DU t»m Maxim Target Voltage 250 volts
Plate Supply Voltage 100 200	260 V	Plate Supply Voltage 100 200 260 volts
Grid Blas (approximate) 0 0	0 V	Grid Blas (approximate) 0 0 0 volts
Heater voltage (&ac or dc), . e e o o s	6.3 V	Heater voltage (&ac or dc), . e e o o s 6,3 volts
Heater current , ., ...	300 mA	Heater current , ., ... ¢« « o o o 0,300ampere
v HeatGrV0lmge..... 6.3	6.3 V	v HeatGrV0lmge..... 6.3 6.3 volts
Series triode-plate resistor , ... 1	1 MΩ	Series triode-plate resistor , ... 1 1 megohm



SOURCE OPERATING CONDITIONS

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1940 RCA

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1940 RCA

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	300 mA	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Target voltage	250 V	Published maximum
Application	Visual tuning indication	Electron-ray indicator



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1948 Brimar Radio Valve Manual

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1948 BRIMAR RADIO VALVE MANUAL

Section 2 · Tuning Indicator

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Visual tuning indication	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

Section 2 · Tuning Indicator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode plate current maximum	0.24 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Shadow-angle control grid voltage	-22 V	—



[SOURCE DATA APPENDIX](#)

SOURCE OPERATING CONDITIONS

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1958 Brimar Radio Valve No 7

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1958 BRIMAR RADIO VALVE NO 7

Section 2 · Tuning Indicator

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Visual tuning indication	—



[SOURCE DATA APPENDIX](#)

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 2 of 4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate and target supply voltage	250 V	Typical
Triode grid voltage for zero-degree shadow angle	-22 V	Typical;250V
Triode plate current at grid 0 V	0.24 mA	Typical;250V

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 2 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum target voltage	285 V	—
Minimum target voltage	100 V	—
Target current at grid 0 V	4 mA	Typical;250V